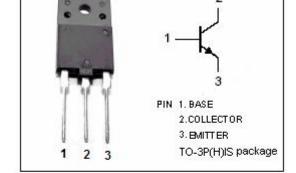


ISC Silicon NPN Power Transistor

2SD1542

DESCRIPTION

- · High Breakdown Voltage-
- : V_{CBO}= 1500V (Min)
- · High Switching Speed
- · Low Saturation Voltage
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

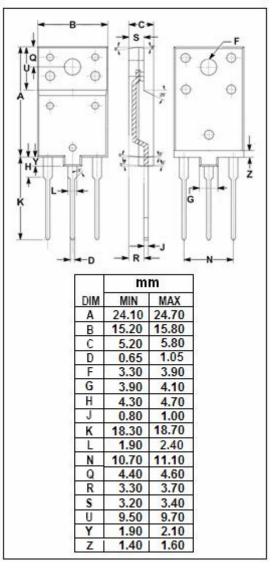


APPLICATIONS

· Designed for horizontal deflection output applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	1500	V
V _{CEO}	Collector-Emitter Voltage	600	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current- Continuous	1.5	А
I _B	Base Current- Continuous	0.5	А
Pc	Collector Power Dissipation @ T _C =25℃	40	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C





ISC Silicon NPN Power Transistor

2SD1542

ELECTRICAL CHARACTERISTICS

 T_c =25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1A; I _B = 0.3A			5.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 1A; I _B = 0.3A			1.5	V
Ісво	Collector Cutoff Current	V _{CB} = 500V; I _E = 0			10	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			1.0	mA
h _{FE}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	8			
f⊤	Current-Gain—Bandwidth Product	I _C = 0.1A; V _{CE} = 10V		3		MHz
Сов	Output Capacitance	I _E = 0; V _{CB} = 10V; f _{test} = 1.0MHz		95		pF
t _f	Fall Time	I _{CP} = 1A, I _{B1(end)} = 0.3A			1.0	μS

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